

Lithium Silicate

Silicate hardener for concrete and mortars

Pure chemical compound with high resistance with silicate base.



Product

- Excellent penetration.
- High brightness.
- Good resistance to abrasion.
- Over absorbent grounds.
- Hard and crystalline surface formation.
- Easy application.

Observations

- The support has to be without saltpeter, fungi, oils, greases... and dirtiness in general, that could alter the product effectivity.
- Outdoors do not apply with more than 30°C measured over the surface to be treated.
- Dilute up to a maximum of 10 parts of water with one part of **Lithium Silicate**.
- Over non absorbent surfaces, sand and open the porous.
- When necessary apply a second layer.

Characteristics

- Before applying the product, perform always essays using the equipment and the proceedings selected for the general application.
- The essay will confirm if the surface preparation and the application procedures are correct for the preview application.
- Total reaction over micro cement: > 2 hours (20°)
- Reaction over concrete: > 2 hours (20°)
- Setting start (20 °C): > 10 hours

**These times can considerably oscillate depending on the ambient temperature*

Final results

- The treated surface will be ready when it is completely dry.
- The smooth and hardened surfaces will have less water absorption and a high brightness.
- The maximum water resistance will appear from the 7th day on.
- With the time and maintenance, brightness and hardening will increase.

** This information has been obtained with standard conditions and it can oscillate depending on the workplace.*

Enforcements

- Silicate compound to harden, densify and seal cement base surfaces.
- Specially indicated for protection and hardening on concrete pavements, micro cement, mortars...
- The treated surfaces resist water damage and surface abrasion.
- Reacts with the cement to produce an insoluble calcium silicate hydrate within the concrete and mortar porous.
- Outdoors and indoors.

Supports

- Micro cement.
- Concretes and cement mortars
- Brick partitions, stone...
- Semi-absorbents grounds.

Recommendations

- Application temperatures from 5 - 35°C
- Do not dilute or alter the product.
- Do not apply on a continuous hot weather, as the product could lose its performances.
- It is not advisable product application on paintings, old plasters, deteriorated surfaces... that can become detached with the product application.
- Do not apply on surfaces with stuck humidity.
- Do not apply on nonabsorbent grounds.

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Execution conditions

Be sure that supports are healthy, stable and resistant and without any dirtiness.

Eliminate the deteriorated parts and in a degrading status, until arriving to the solid support, resistant and absorbent.

It can be applied on existing cured concrete with any age.

On new cement bases, its setting has to be completed (≥ 28 days).

Over **Pavicem microcemento**, from the 7th day on (humidity lower than 2%).

Over cement bases, they have to be equally wet.

On hot and dry climates, moisten the surface previously with safe water and let it evaporate.

Avoid product application with low temperatures, strong humidity, rain... in the hours following the application, the risk of altering the final performances increases.

Do not let the exceeding product to get ponded, as it may increase the drying time and whitish remains will be created that have to be eliminated immediately.

Usage way

- Application:

- Perform always essays before using the product.
- Apply a sponge coat, airless, aconventional... without overloading
- Over wet polished concrete let it get dry before the product application.

Associated products

*Concrete and mortars

*Micro cement



Packaging

(5-20 l.)
20 liter drum
480 liter pallet (24 drums)

Consumption

Polished concrete: $\pm 0,08$ l/m² (1 pass)
Micro cement: $\pm 0,08$ l/m² (1 pass)

Preservation

In the closed original container and without the fabric sealing opened and sheltered from outdoors and humidity: 2 years

Technical data

Form: clear liquid and with water
pH: 11,0
Active content: 15,1 %
Total solids: 15 %
Flashpoint: ND
Freezing point: 0 °C

⚠ IMPORTANT

The observations and prescriptions of this data sheet, although corresponding to our best experience, should be considered, in any case, purely indicative, and should be tested by exhaustive practical applications; therefore, before using the product, the user must establish whether or not it is suitable for the intended use, and assumes all liability that may arise from its use. Once the product has been handled or applied, the manufacturer shall not assume any claim whatsoever, nor any liability as to the manner, mode and conditions of application.